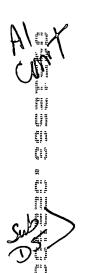


- (a) plant cells containing nucleotide sequences encoding one or more biologically functional multimeric proteins not normally produced by the plant; and
- (b) biologically functional multimeric proteins encoded by said nucleotide sequences.
- 22. The plant of claim 21 wherein the multimeric protein comprises a heteromultimeric protein.
- 23. The plant of claim 21 wherein the multimeric protein comprises a homomultimeric protein.
- 24. The plant of claim 21 wherein the multimeric protein comprises a ligand binding polypeptide.
 - 25. The plant of claim 24 wherein the ligand is an antigen.
- 26. The plant of claim 21 wherein the multimeric protein forms a binding site specific for a predetermined antigen.
- 27. The plant of claim 21 wherein the multimeric protein is an enzyme.
- 28. The plant of claim 21 wherein the multimeric protein is an abzyme.
- 29. The plant of claim 21 wherein the multimeric protein contains one or more disulfide bonds.
- 532730. The plant of claim 21 wherein the multimeric protein is joined by hydrogen bonding.
 - 31. The plant of claim 21 wherein the multimeric protein comprises an immunoglobulin product.
 - 32. The plant of claim 31 wherein the immunoglobulin product comprises an Fab.
 - 33. The plant of claim 31 wherein the immunoglobulin product comprises an Fab'



- 34. The plant of claim 31 wherein the immunoglobulin product comprises an F(ab')2.
- 35. The plant of claim 31 wherein the immunoglobulin product comprises an Fv.
- 36. The plant of claim 31 wherein the immunoglobulin product comprises an antibody.
- 37. The plant of claim 31 wherein the immunoglobulin product contains a paratope.
- 38. The plant of claim 21 wherein the multimeric protein comprises a glycosylated immunoglobulin molecule free of sialic acid residues.
- 39. The plant of claim 21 wherein the plant is a dicotyledonous plant.
- 40. The plant of claim 21 wherein the plant is a monocotyledonous plant.
 - 41. The plant of claim 1 wherein the plant is an alga.
- 42. The plant of claim 21 wherein the multimeric protein includes a Jachain.
- 43. A plant cell that contains a nucleotide sequence that encodes a biologically functional multimeric protein not normally produced by the plant cell.
- 44. The plant cell of claim 43 wherein the multimeric protein comprises a heteromultimeric protein.
- 45. The plant cell of claim 43 wherein the multimeric protein comprises a homomultimeric protein.
- 46. The plant cell of claim 43 wherein the multimeric protein comprises a ligand binding polypeptide.
- 47. The plant cell of claim 46 wherein the ligand is an antigen.



- 48. The plant cell of claim 43 wherein the multimeric protein forms a binding site specific for a predetermined antigen.
- 49. The plant cell of claim 43 wherein the multimeric protein is an enzyme.
- 50. The plant cell of claim 43 wherein the multimeric protein is an abzyme.
- 51. The plant cell of claim 43 wherein the multimeric protein contains one or more disulfide bonds.
- 523752. The plant cell of claim 43 wherein the multimeric protein is joined by hydrogen bonding.
 - 53. The plant cell of claim 43 wherein the multimeric protein comprises an immunoglobulin product.
 - 54. The plant cell of claim 53 wherein the immunoglobulin product comprises an Fab.
 - 55. The plant cell of claim 53 wherein the immunoglobulin product comprises an Fab'.
 - 56. The plant cell of claim 53 wherein the immunoglobulin product comprises an F(ab')2.
 - 57. The plant cell of claim 53 wherein the immunoglobulin product comprises an Fv.
 - 58. The plant cell of claim 53 wherein the immunoglobulin product comprises an antibody.
 - 59. The plant cell of claim 53 wherein the immunoglobulin product contains a paratope.
 - 60. The plant dell of claim 43 wherein the multimeric protein comprises a glycosylated immunoglobulin molecule free of sialic acid residues.
- dicotyledonous plant.
 - 62. The plant cell of claim 43 derived from a monocotyledonous plant.